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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/625,224	07/22/2003	Masaki Kawasaki	10873.1279US01	8357	
7:	590 03/24/2005		EXAM	EXAMINER	
Merchant & Gould P.C.			SANTIAGO, MARICELI		
P.O. Box 2903 Minneapolis, MN 55402-0903 ART UNIT PAR		PAPER NUMBER			
Minneapolis, N	AN 55402-0903		2879	TALEKNOMBER	
			DATE MAILED: 03/24/200:	DATE MAILED: 03/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>			
	Application No.	Applicant(s)	m
Office Action Summary	10/625,224	KAWASAKI ET AL.	<u> </u>
Omce Action Summary	Examiner	Art Unit	
The MAU INO DATE - Sali-	Mariceli Santiago	2879	
The MAILING DATE of this communic	cation appears on the cover sneet with	the correspondence address	•-
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNION. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communion. - If the period for reply specified above is less than thirty (30). - If NO period for reply is specified above, the maximum statence of the second period for reply within the set or extended period for reply within the set	CATION. of 37 CFR 1.136(a). In no event, however, may a reprincation. of days, a reply within the statutory minimum of thirty utory period will apply and will expire SIX (6) MONT will, by statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication NDONED (35 U.S.C. § 133).	ation.
Status			
1) Responsive to communication(s) filed	j on		
2a) This action is FINAL . 2	b)⊠ This action is non-final.		
3) Since this application is in condition f closed in accordance with the practic		•	s is
Disposition of Claims			
4) ☐ Claim(s) 1-5 is/are pending in the approach 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restrict	e withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the	Examiner.		
10)⊠ The drawing(s) filed on <u>22 <i>July</i> 2003</u> i			
Applicant may not request that any object	- · · · · · · · · · · · · · · · · · · ·	` '	
Replacement drawing sheet(s) including a 11) The oath or declaration is objected to		-	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority of the certified copies of the priority of the certified copies of the copies of the capplication from the Internation * See the attached detailed Office action	documents have been received. Iocuments have been received in Ap If the priority documents have been r Inal Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Su	mmary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PT 3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date	O-948) Paper No(s)	Mail Date ormal Patent Application (PTO-152)	
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakadera et al. (JP 2002-150964).

Regarding claim 1, Nakadera discloses a cathode ray tube comprising a panel having a phosphor screen (804), an electron gun (806) for emitting an electron beam toward the panel, a color selection electrode (805) having electron beam passing apertures, a pair of longer side frames (811a) for supporting the color selection electrode with a tension being applied, a pair of shorter side frames (812a) joined to the pair of longer side frames, and an internal magnetic shield (830), wherein magnetic shielding members (834a) further are provided on lateral surfaces of shorter sides of the internal magnetic shield, the magnetic shielding members are inclined at an inclination angle θ ($\theta \neq 0^{\circ}$) to a tube axis, and edges of the magnetic shielding members on a side of the phosphor screen are located between the color selection electrode and a plane that passes through ends of the pair of shorter side frames on a side of the color selection electrode and is perpendicular to the tube axis (Paragraph [0010], Fig. 19).

Regarding claim 2, Nakadera discloses a cathode ray tube wherein the magnetic shielding members are formed by extending a part of the internal magnetic shield (Fig. 18).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakadera et al. (JP 2002-150964).

Regarding claim 3, Nakadera discloses the claimed invention except for the limitation of the inclination angle θ of the magnetic shielding members to the tube axis is 5° to 45°. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the inclination angle θ of the magnetic shielding members to the tube axis is 5° to 45°, since optimization of workable ranges is considered within the skill of the art.

Regarding claim 4, Nakadera discloses the claimed invention except for the limitation of a distance along a direction in parallel with the tube axis between the color selection electrode and the phosphor screen side edges of the magnetic shielding members is 30 mm or smaller. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a distance along a direction in parallel with the tube axis between the color selection electrode and the phosphor screen side edges of the magnetic shielding members is 30 mm or smaller, since optimization of workable ranges is considered within the skill of the art.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakadera et al. (JP 2002-150964) in view of Kawamura et al (US 5,523,647).

Regarding claim 5, Nakadera discloses the claimed invention except for the limitation of the color selection electrode being formed of a ferrous material. However, in the same field of endeavor, Kawamura discloses the use of a ferrous material for the color selection electrode in order to diminish thermal expansion of the color selection electrode, which causes unwanted shifting of the landing positions of electron beams on the phosphor screen. It has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. Thus, it would have been obvious to one having ordinary skills in the art at the time the invention was made to incorporate a color selection electrode being formed of a ferrous material, in order to diminish thermal expansion of the color selection electrode, since the selection of known materials for a known purpose is within the skill of the art.

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariceli Santiago whose telephone number is (571) 272-2464. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mariceli Santiago Patent Examiner Art Unit 2879